TR-1300

ISO Set using ISO screws

SPECIFICATIONS

Circuit System: 9 transistors (including 1 FET) and 4 diodes superheterodyne, 3 transistors for AUX. circuit

Frequency Coverage: MW ; 530 - 1,605 kHz (566 - 187 m)
SW-1; 1.6 - 3.5 MHz (187.5 - 86 m)
SW-2; 3.5 - 7.0 MHz (86 - 43 m)
SW-3; 7.0 - 14.0 MHz (43 - 21 m)
SW-4; 14.0 - 26.1 MHz (21 - 11 m)

Intermediate Frequency: 455 kHz

Antenna System: MW; built-in ferrite-bar antenna
SW; built-in telescopic antenna

Power Requirement: Four "D" size flashlight batteries, 6V in total or house current by 100V, 117V, 220V and 240V.

Power Output: 1.2W (harmonic distortion, less than 10%)
1.7W (maximum)

Current Drain: 25 mA at zero signal, 500 mA at 1.2W output

Maximum Sensitivity: (at 50 mW output) MW ; 14μV/m
SW-1; 1.1μV
SW-2; 1.0μV
SW-3; 1.0μV
SW-4; 1.2μV

Selectivity at 1,400 kHz: 45 dB (SHARP position of SELECT. switch)
35 dB (BROAD position of SELECT. switch)

Speaker: 4" x 6" (10 cm x 15 cm), Impedance 8Ω

Dimensions: $10\frac{5}{8}$" (W) x $8\frac{3}{4}$" (H) x $3\frac{15}{16}$" (D) (270 mm x 222 mm x 100 mm)

Weight: 8 lb ½ oz (3.65 kg)

SONY®
SERVICE MANUAL

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SECTION 1
BLOCK DIAGRAM, EXTERNAL AND INTERIOR VIEWS

1-1. BLOCK DIAGRAM

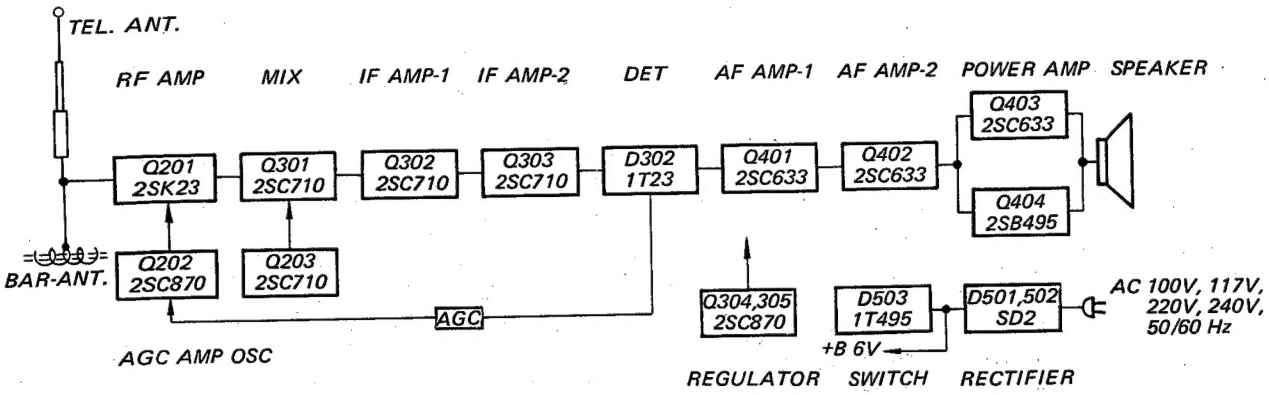


Fig. 1-1

1-2. EXTERNAL VIEW

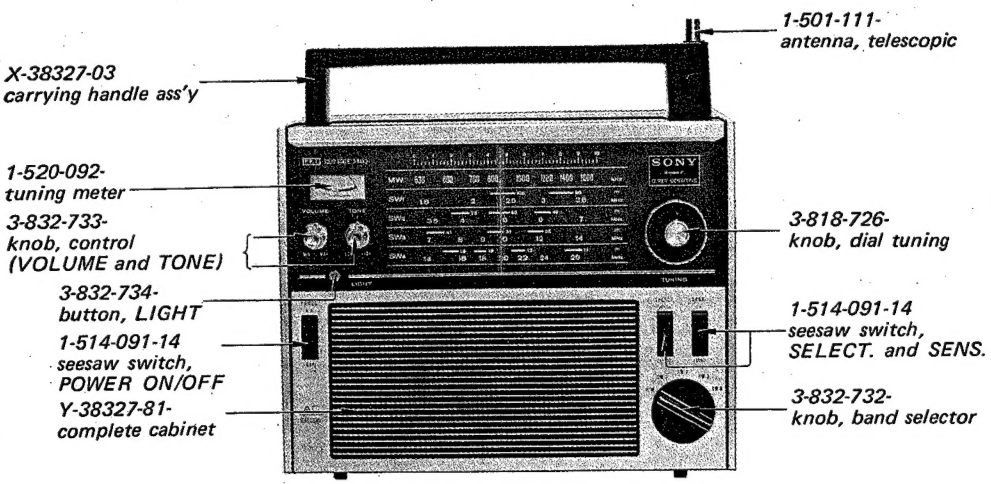


Fig. 1-2

1-3. INTERIOR VIEW

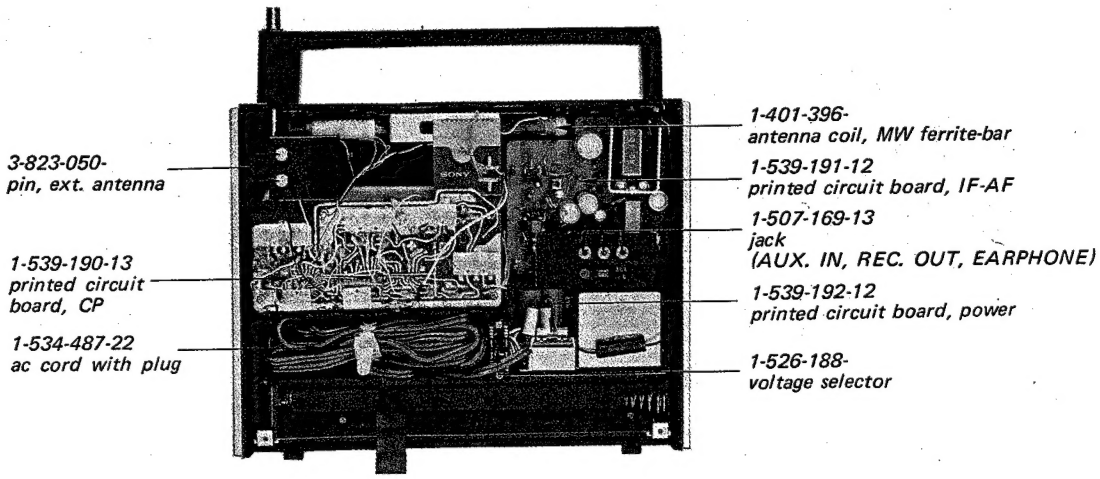


Fig. 1-3

SECTION 2
DISASSEMBLY AND REPLACEMENT

2-1. REAR CABINET REMOVAL

1. Place the set rear-side-up on a padded work surface.
2. Remove the three screws labeled Ⓐ in Fig. 2-1.
3. Lift up the bottom side of the rear cabinet.

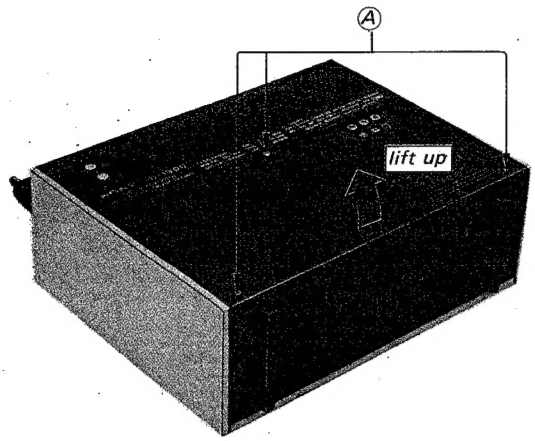


Fig. 2-1 Rear cabinet removal

2-2. CHASSIS REMOVAL

1. Pull out the four knobs, VOLUME, TONE, TUNING and BAND SELECTOR. (See Fig. 2-2.)
2. Remove a screw labeled Ⓑ in Fig. 2-2.
3. Pull out the telescopic antenna.
4. Remove the rear cabinet.

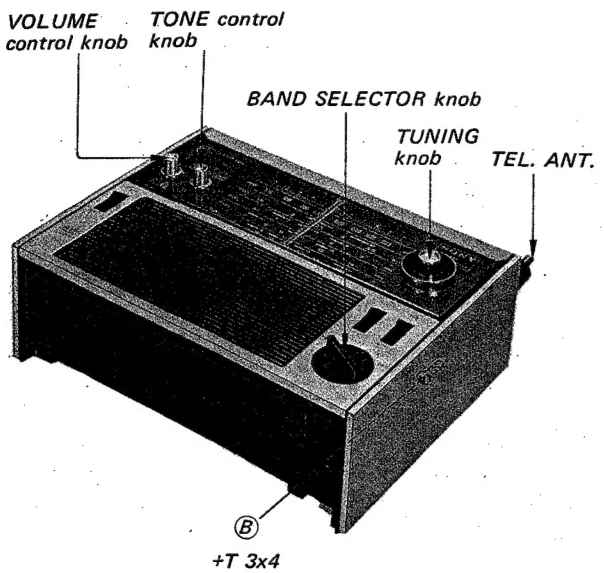


Fig. 2-2 Chassis removal, steps 1 and 2

5. Unsolder the four leads, GRY and RED, in Fig. 2-3.
6. Remove the two screws labeled Ⓒ in Fig. 2-3.
7. Lift up the chassis as shown in Fig. 2-4.

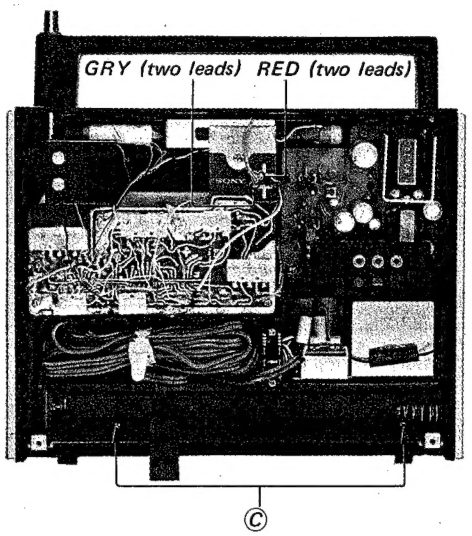


Fig. 2-3 Chassis removal, steps 5 and 6

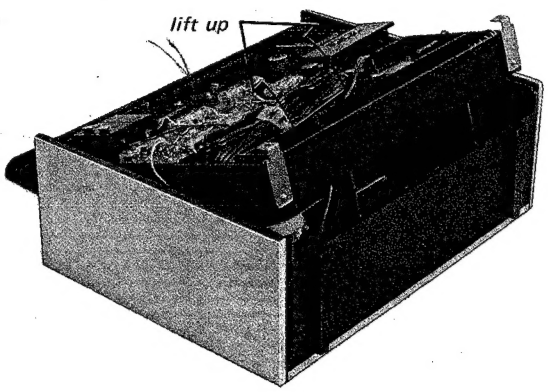


Fig. 2-4 Chassis removal, step 7

2-3. CP CIRCUIT BOARD REMOVAL

1. Remove the rear cabinet.
2. Remove the chassis.
3. Remove the three screws labeled Ⓓ in Fig. 2-5.
4. Unsolder the seven leads and two braided wires in Fig. 2-6.
5. Lift up the CP circuit board as shown by the arrow in Fig. 2-5.

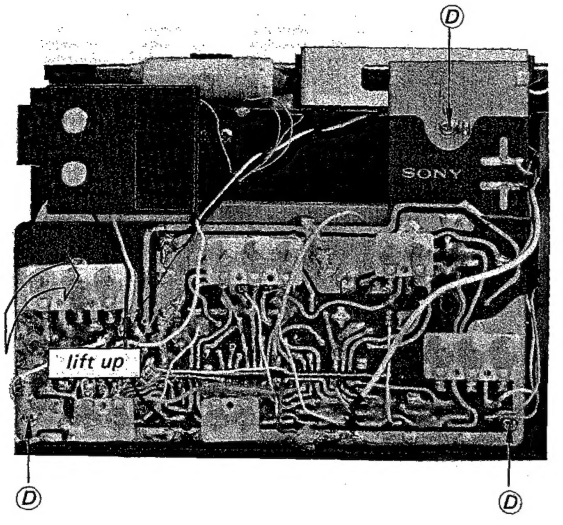


Fig. 2-5 CP circuit board removal, steps 3 and 5

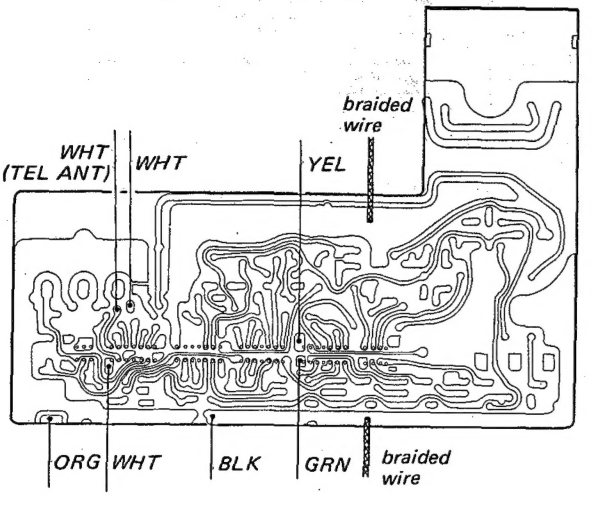


Fig. 2-6 CP circuit board removal, step 4

2-4. IF-AF CIRCUIT BOARD REMOVAL

1. Remove the rear cabinet and the chassis.
2. Pull off the jack holder carefully shown in Fig. 2-7.
3. Remove the three screws labeled Ⓔ in Fig. 2-7.
4. Remove the two screws labeled Ⓕ in Fig. 2-8.
5. Unsolder the two leads which are connected to the tuning meter shown in Fig. 2-9.
6. Pull out the IF-AF circuit board carefully.

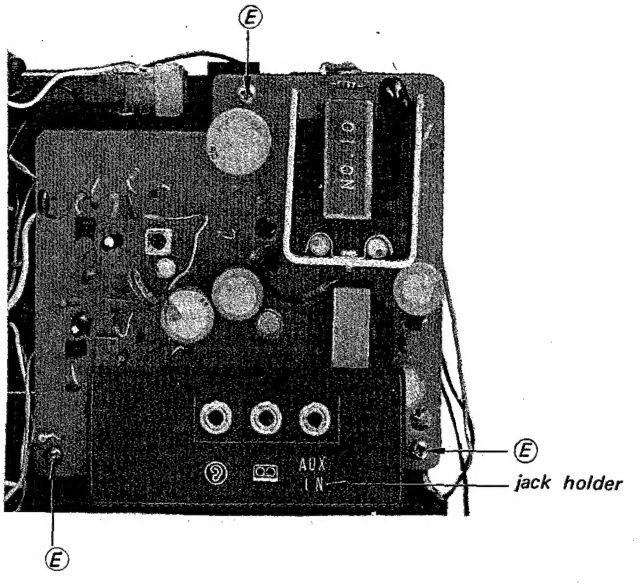


Fig. 2-7 IF-AF circuit board removal, steps 2 and 3

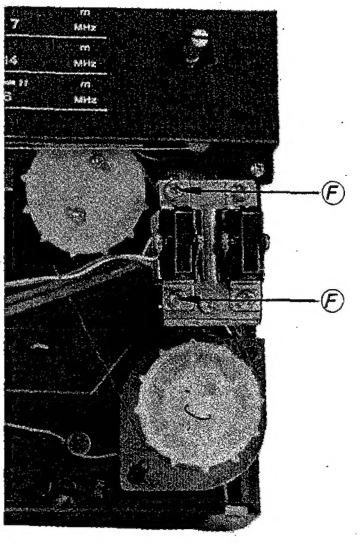


Fig. 2-8 IF-AF circuit board removal, step 4

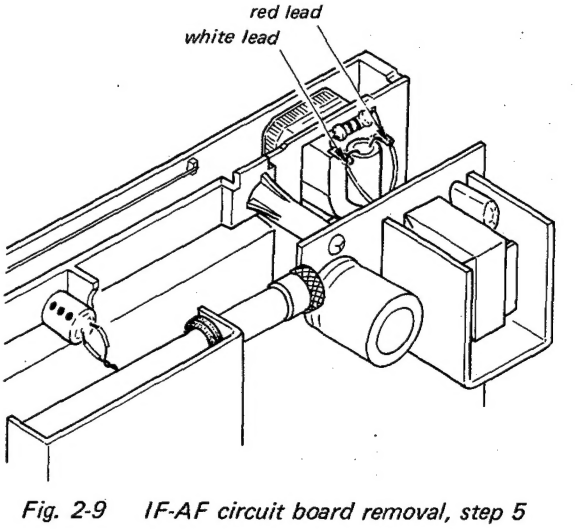


Fig. 2-9 IF-AF circuit board removal, step 5

2-5. POWER CIRCUIT BOARD REMOVAL

1. Remove the rear cabinet and the chassis.
2. Unsolder a black lead and a red lead as shown in Fig. 2-10.
3. Remove the two screws labeled Ⓖ in Fig. 2-10.
4. Place the set rear-side-up on a padded work surface.
5. Remove the two screws labeled Ⓗ in Fig. 2-11.
6. Pull off the transformer bracket carefully. (See Fig. 2-12).
7. Straighten the bent portion of two tabs with pliers as shown in Fig. 2-12.
8. Pull off the power circuit board.

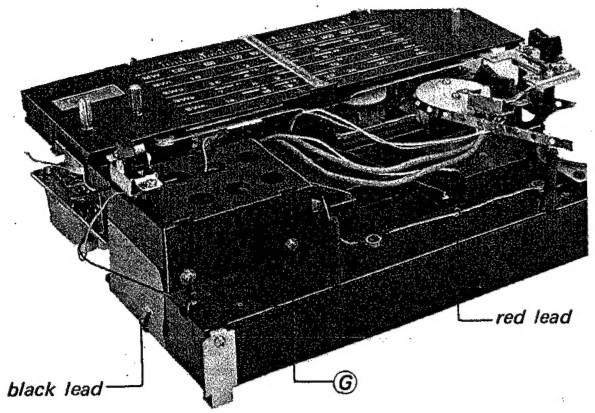


Fig. 2-10 Power circuit board removal, steps 2 and 3

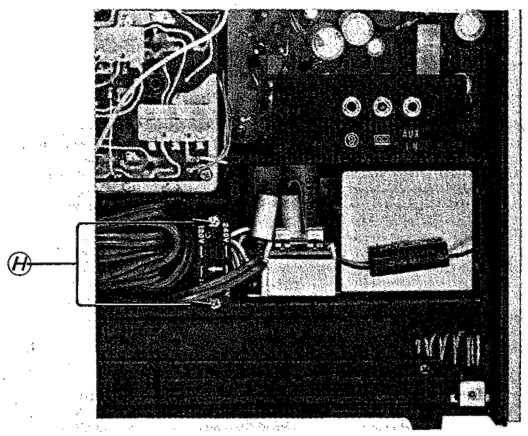


Fig. 2-11 Power circuit board removal, step 5

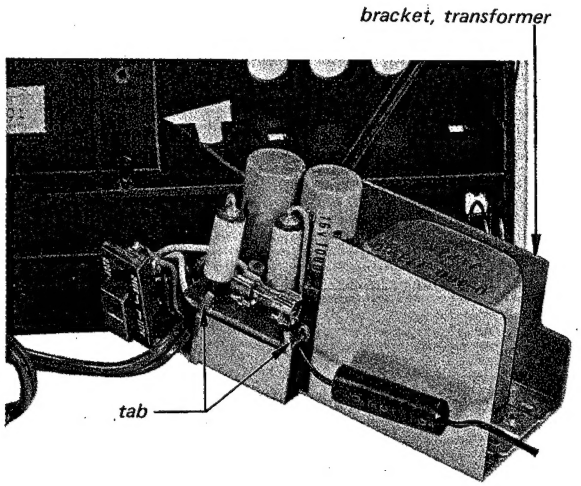
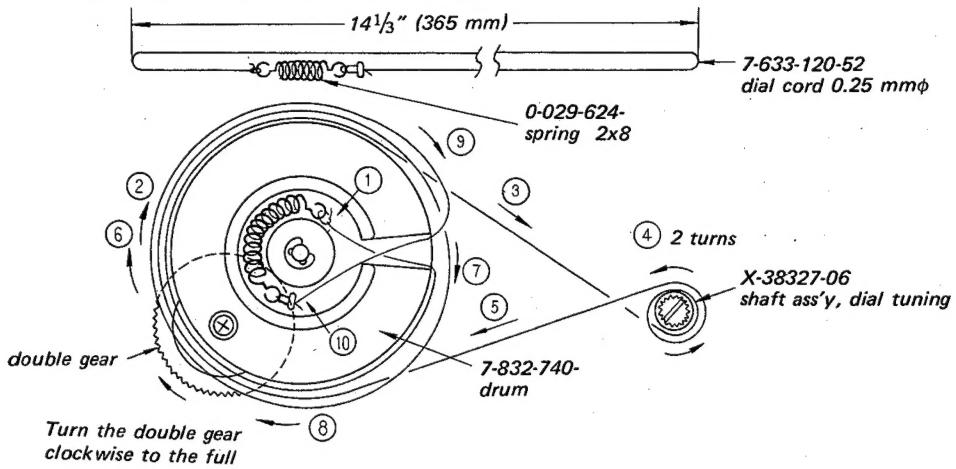


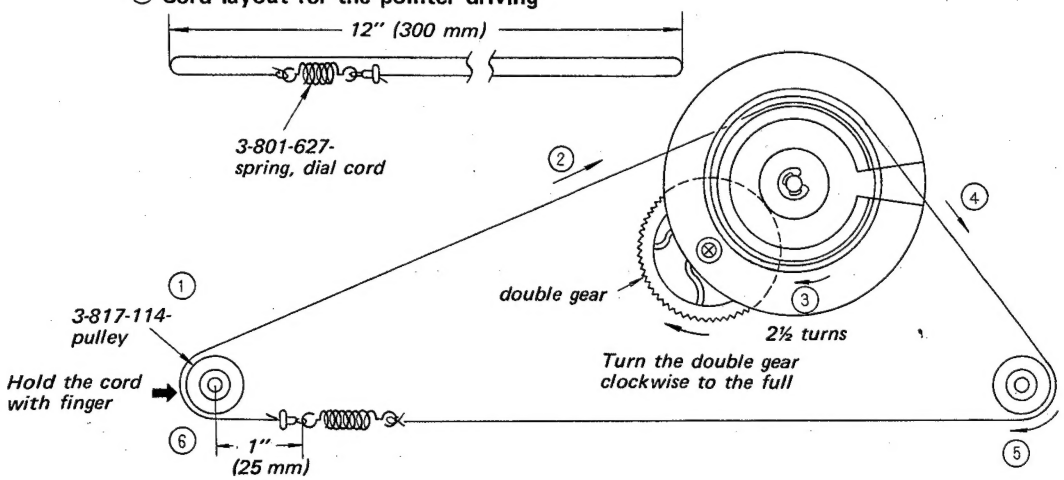
Fig. 2-12 Power circuit board removal, steps 6 and 7

2-6. DIAL CORD STRINGING

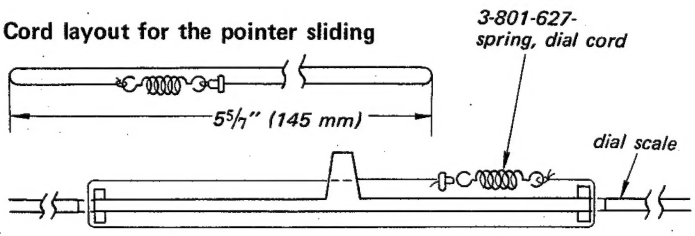
Ⓐ Cord layout for the tuning capacitor driving



Ⓑ Cord layout for the pointer driving



Ⓒ Cord layout for the pointer sliding



SECTION 3
CIRCUIT ADJUSTMENTS

3-1. IF ADJUSTMENTS

RF Signal Generator Coupling	RF Signal Generator Frequency	VTVM Connection	Adjust	Remarks
loop antenna	455 kHz (1 kHz 30% a-m)	to earphone jack with 8Ω load resistor in parallel.	IFT-301	1. Turn the tuning capacitor to minimum capacitance position.(band selector: MW) 2. Adjust for maximum meter reading.

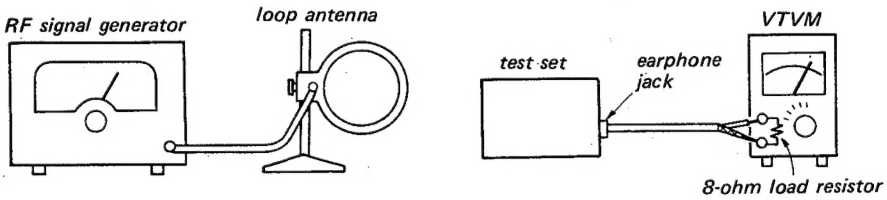


Fig. 3-1 IF adjustment, MW frequency coverage and tracking adjustment setup

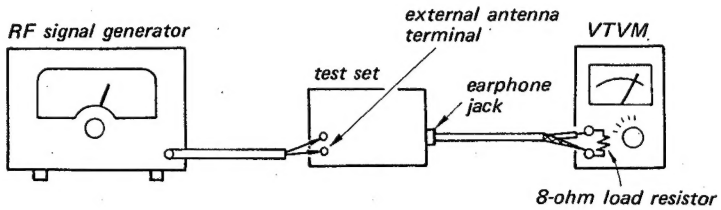


Fig. 3-2 SW frequency coverage and tracking adjustment setup

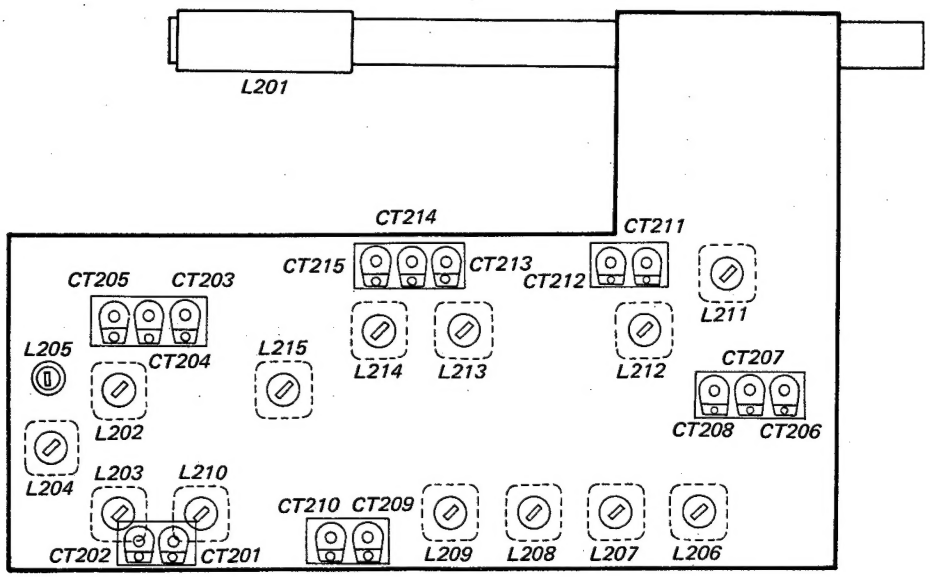


Fig. 3-3 Adjustment parts location (viewed from conductor side of CP circuit board)

3-2. FREQUENCY COVERAGE AND TRACKING ADJUSTMENTS

Receiver Control Settings:
VOLUME control : MAX
TONE control : HIGH
SELECT. switch : SHARP
SENS. switch : DX

Rf Signal Generator Modulation:
1,000 Hz 30% amplitude-modulation

VTVM Connection:
to earphone jack with 8Ω load resistor in parallel

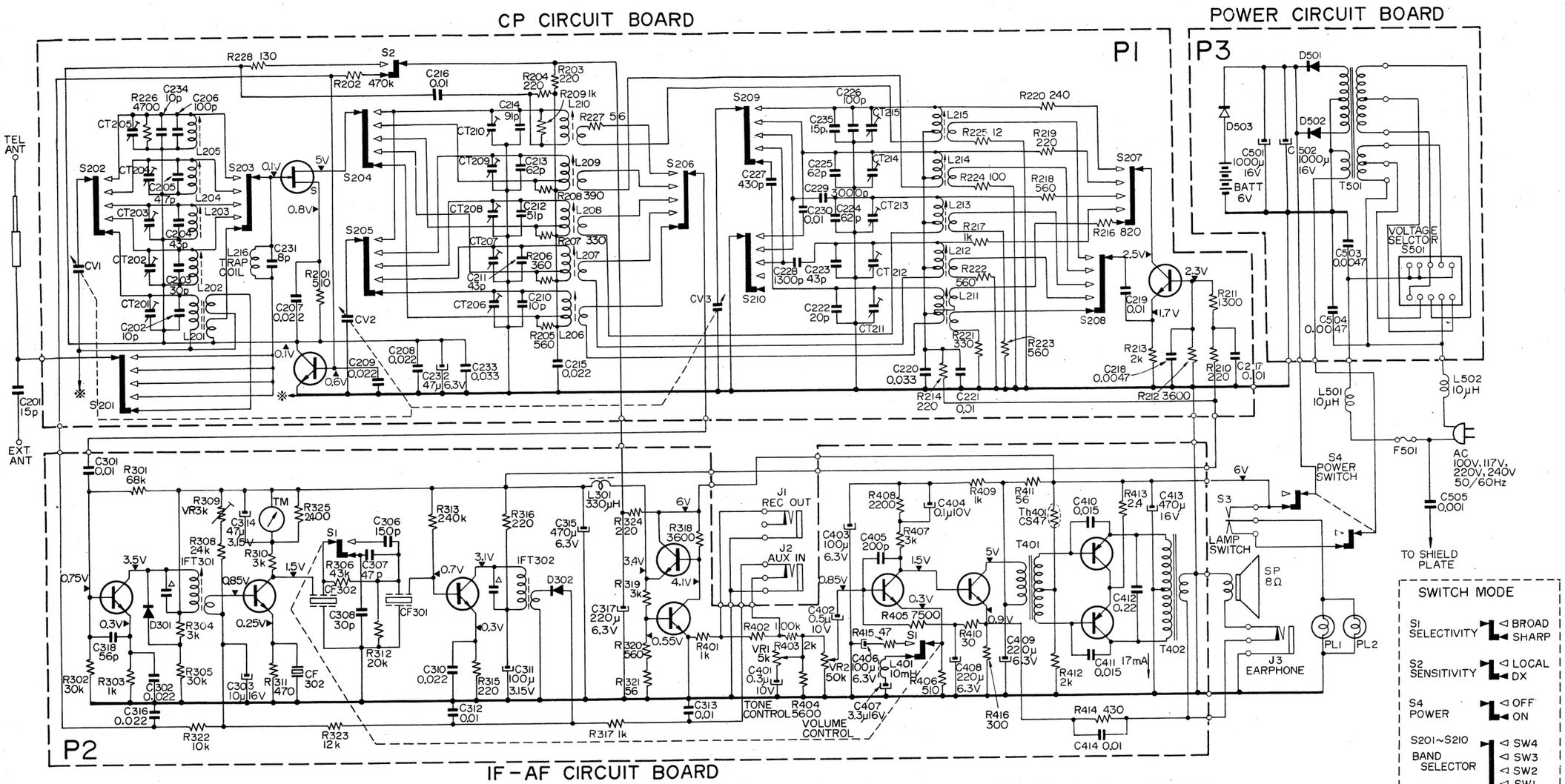
Adjusting Item	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Remarks
MW Frequency Coverage	loop antenna See Fig. 3-1.	520 kHz	fully left	MW osc coil L211	Adjust for maximum meter reading.
		1,680 kHz	fully right	MW osc trimmer CT211	
MW Tracking	– ditto –	620 kHz	tune to 620 kHz signal	MW ant coil L201, MW rf coil L206	– ditto –
		1,400 kHz	tune to 1,400 kHz signal	MW ant trimmer CT201, MW rf trimmer CT206	
SW1 Frequency Coverage	direct connection to the ext. antenna terminal	1.6 MHz	fully left	SW1 osc coil L212	– ditto –
		3.5 MHz	fully right	SW1 osc trimmer CT212	
SW1 Tracking	– ditto –	1.6 MHz	tune to 1.6 MHz signal	SW1 ant coil L202, SW1 rf coil L207	– ditto –
		3.5 MHz	tune to 3.5 MHz signal	SW1 ant trimmer CT202 SW1 rf trimmer CT207	
SW2 Frequency Coverage	– ditto –	3.5 MHz	fully left	SW2 osc coil L213	– ditto –
		7.0 MHz	fully right	SW2 osc trimmer CT213	

Adjusting Item	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Remarks
SW2 Tracking	direct connection to the ext. antenna terminal	3.5 MHz	tune to 3.5 MHz signal	SW2 ant coil L203, SW2 rf coil L208	Adjsut for maximum meter reading.
		7.0 MHz	tune to 7.0 MHz signal	SW2 ant trimmer CT203, SW2 rf trimmer CT208	
SW3 Frequency Coverage	– ditto –	7.0 MHz	fully left	SW3 osc coil L214	– ditto –
		14.0 MHz	fully right	SW3 osc trimmer CT214	
SW3 Tracking	– ditto –	7.0 MHz	tune to 7.0 MHz signal	SW3 ant coil L204, SW3 rf coil L209	– ditto –
		14.0 MHz	tune to 14.0 MHz signal	SW3 ant trimmer CT204, SW3 rf trimmer CT209	
SW4 Frequency Coverage	– ditto –	14.0 MHz	fully left	SW4 osc coil L215	– ditto –
		26.1 MHz	fully right	SW4 osc trimmer CT215	
SW4 Tracking	– ditto –	14.0 MHz	tune to 14.0 MHz signal	SW4 ant coil L205, SW4 rf coil L210	– ditto –
		26.1 MHz	tune to 26.1 MHz signal	SW4 ant trimmer CT205, SW4 rf trimmer CT210	

SECTION 4
SCHEMATIC DIAGRAM AND MOUNTING DIAGRAM

4-1. SCHEMATIC DIAGRAM

Q201 2SK23 (RF AMP)
Q202 2SC870 (AGC)
Q203 2SC710 (OSC)
D503 IT495 (SWITCH)
D501,502 CD2 (RECTIFIER)



Q301 2SC710 (MIX)
Q302 2SC710 (IF AMP 1)
Q303 2SC710 (IF AMP 2)
Q304,305 2SC870 (REGULATOR)
Q401 2SC633 (AF AMP 1)
Q402 2SC633 (AF AMP 2)
Q403,404 2SB495 (POWER AMP)
D301 IT23 (AGC)
D302 IT23 (DET)

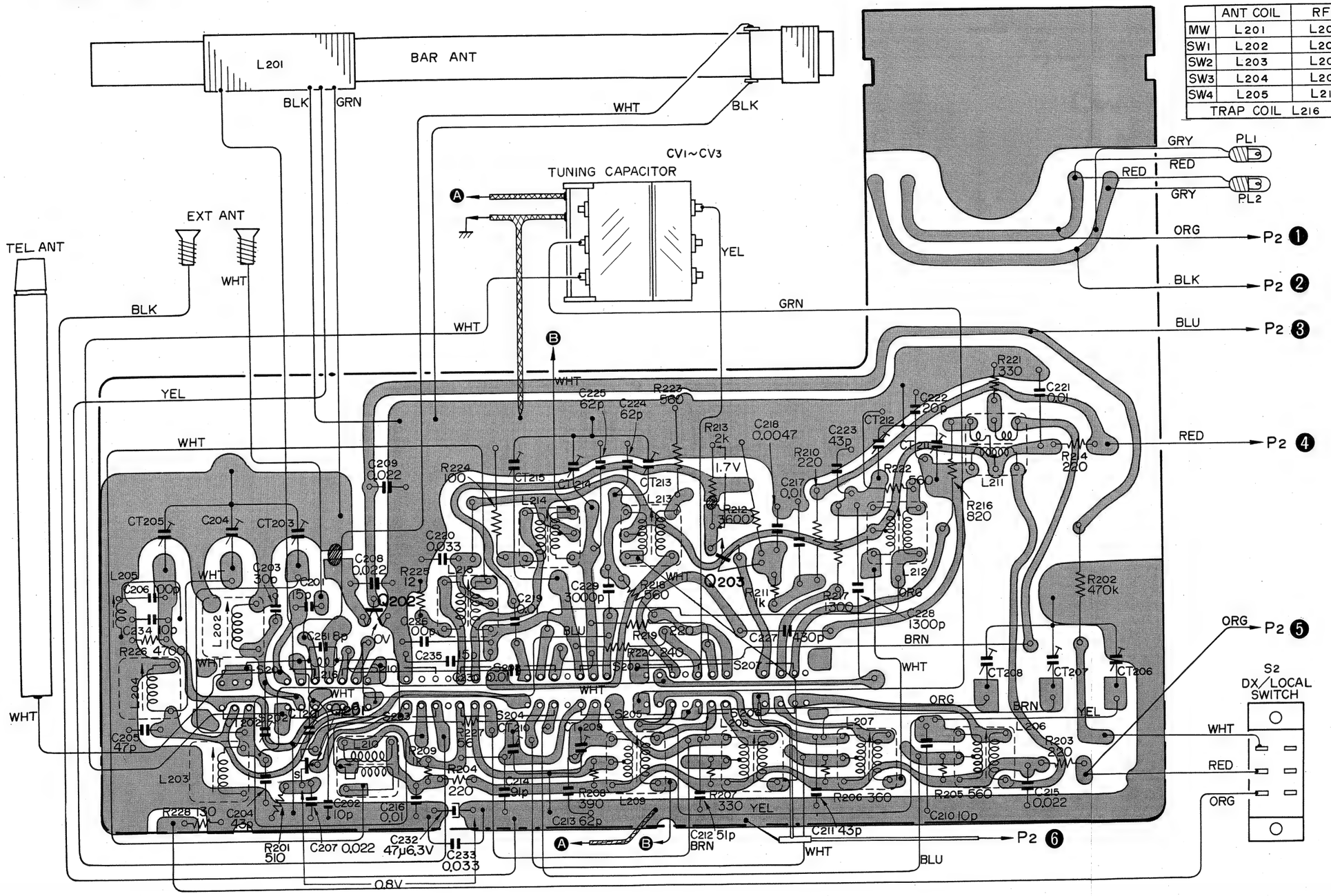
MW	L201	ANT COIL	L206	RFT	L211	OSC COIL
SW1	L202	ANT COIL	L207	RFT	L212	OSC COIL
SW2	L203	ANT COIL	L208	RFT	L213	OSC COIL
SW3	L204	ANT COIL	L209	RFT	L214	OSC COIL
SW4	L205	ANT COIL	L210	RFT	L215	OSC COIL

Note: 1. All resistors and capacitors are in ohm and µF, unless otherwise indicated.
2. Capacitor marked with △ is built in i-f transformer.
3. Voltage value is measured to ground circuit with a dc voltmeter (20 kΩ/V) and current value is measured with a dc ammeter.
Voltage and current values are taken with no radio signal received. Variations may be noted due to normal production tolerances.

4-2. CP CIRCUIT BOARD (P1)

MOUNTING DIAGRAM

– Conductor side –



	ANT COIL	RFT	OSC COIL
MW	L201	L206	L211
SW1	L202	L207	L212
SW2	L203	L208	L213
SW3	L204	L209	L214
SW4	L205	L210	L215
TRAP COIL L216			

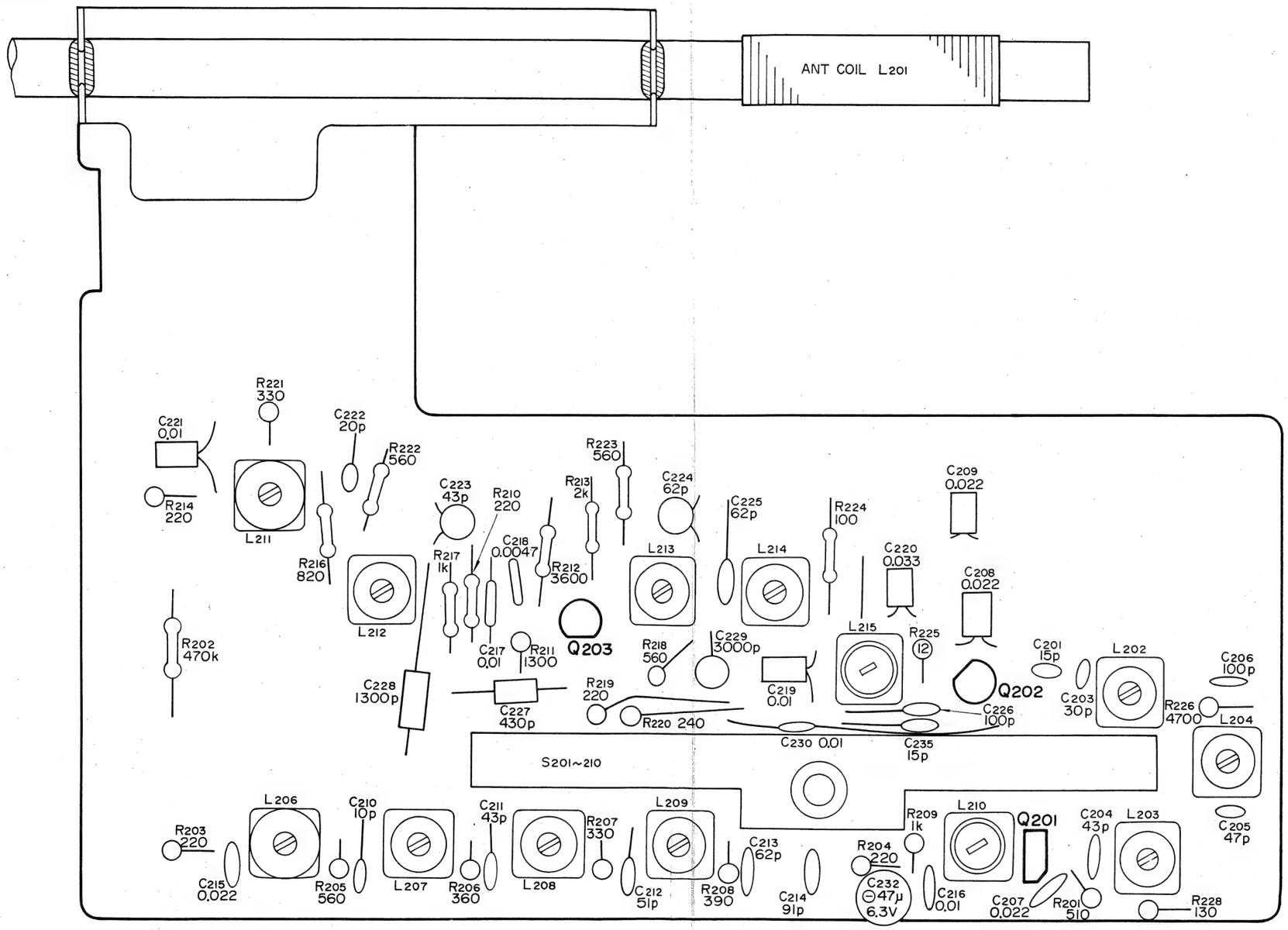
Printed circuit board
Part No. 1-539-190-13

Note: The following components are mounted on the conductor side.
R227, C202, C231, L205, L216, CT201–215.

4-2. CP CIRCUIT BOARD (P1)

MOUNTING DIAGRAM

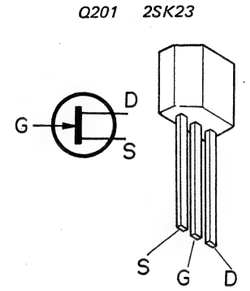
— Component side —



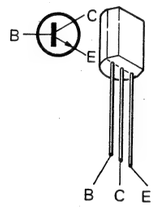
Printed circuit board
Part No. 1-539-190-13

Note: The following components are mounted on the conductor side.
R227, C202, C231, L205, L216, CT201–215.

Q201 2SK23

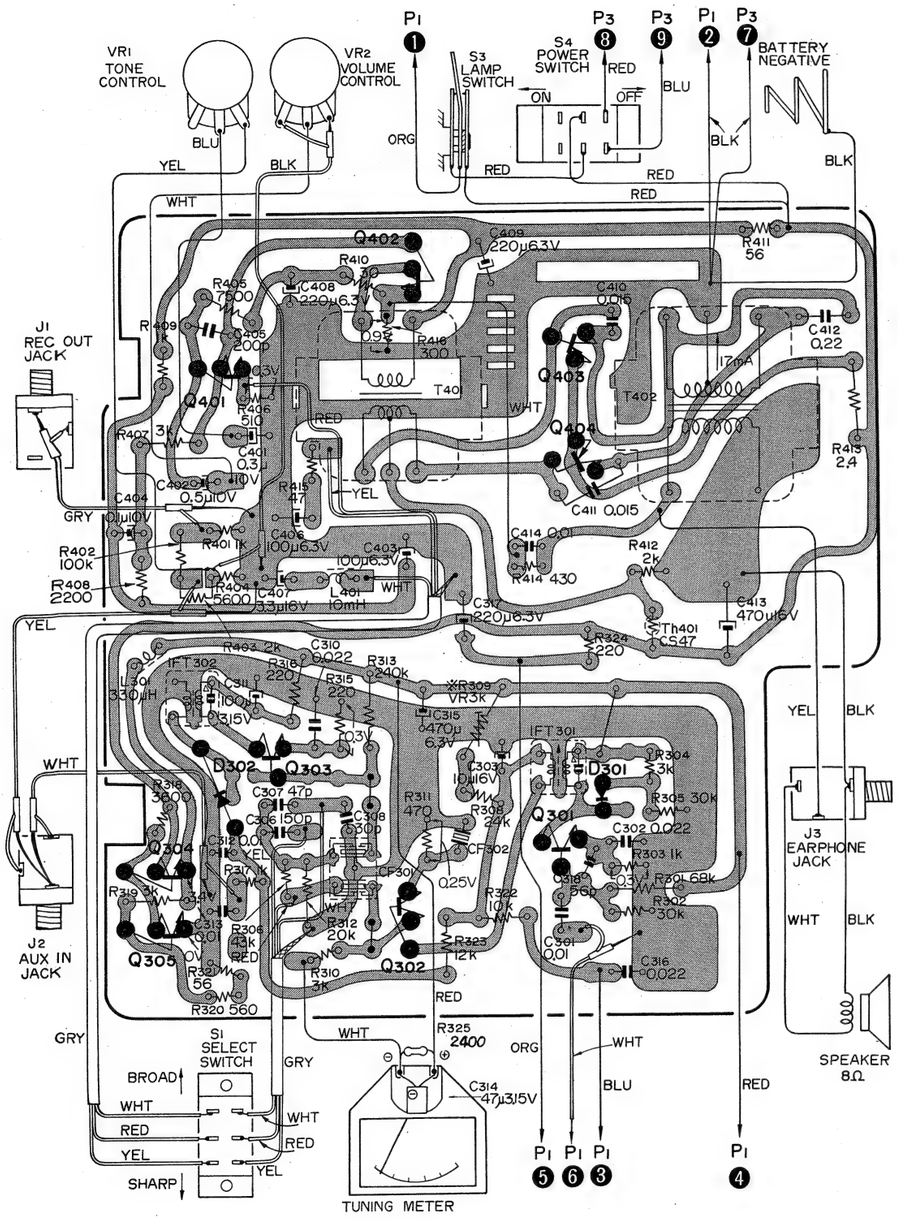


Q202 2SC870
Q203 2SC710



4-3. IF-AF CIRCUIT BOARD (P2)
MOUNTING DIAGRAM

– Conductor side –



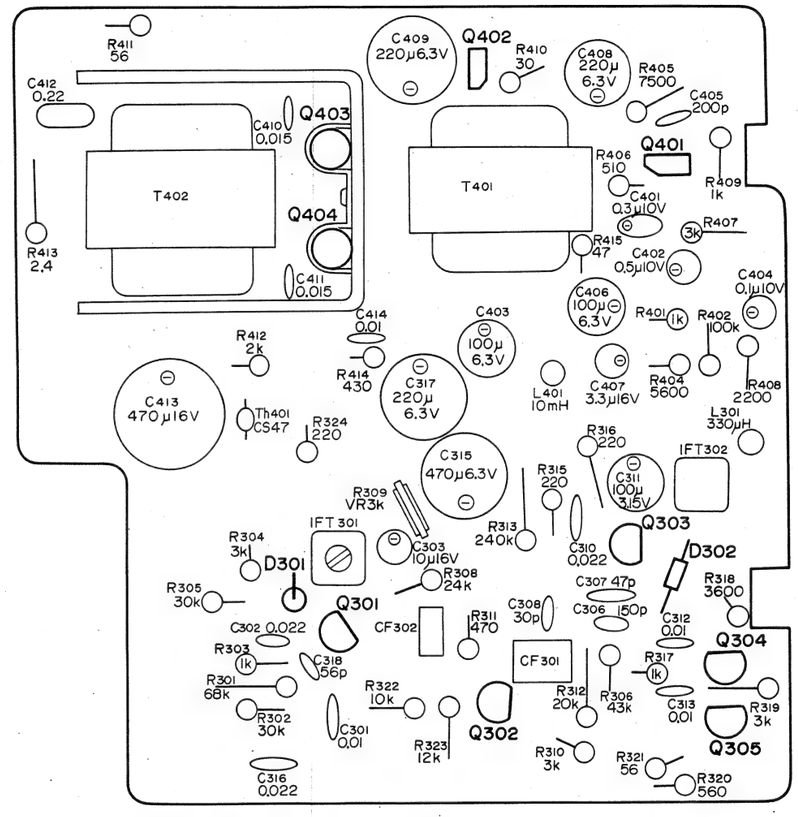
Printed circuit board
Part No. 1-539-191-12

Note: The following components are mounted on the conductor side.

R403, R416

4-3. IF-AF CIRCUIT BOARD (P2)
MOUNTING DIAGRAM

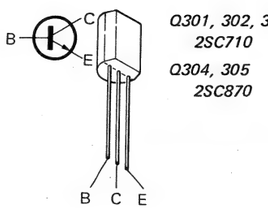
– Component side –



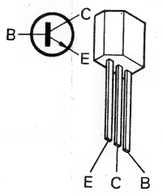
Printed circuit board
Part No. 1-539-191-12

Note: The following components are mounted on the conductor side.

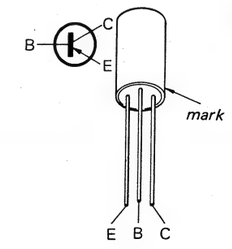
R403, R416



Q301, 302, 303
2SC710
Q304, 305
2SC870



Q401, 402
2SC633

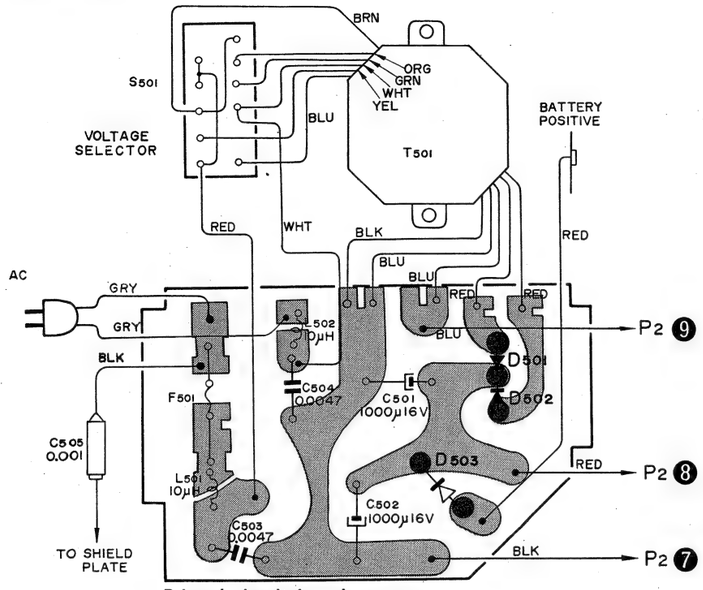


Q403, 404
2SB495

4-4. POWER CIRCUIT BOARD (P3)

MOUNTING DIAGRAM

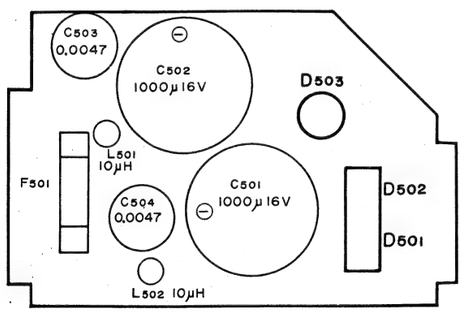
— Conductor side —



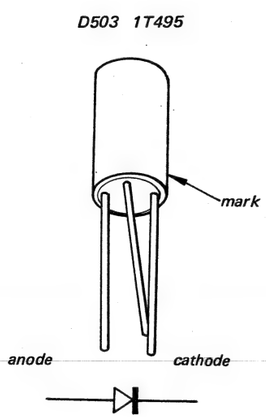
Printed circuit board
Part No. 1-539-192-12

4-4. POWER CIRCUIT BOARD (P3)

— Component side —

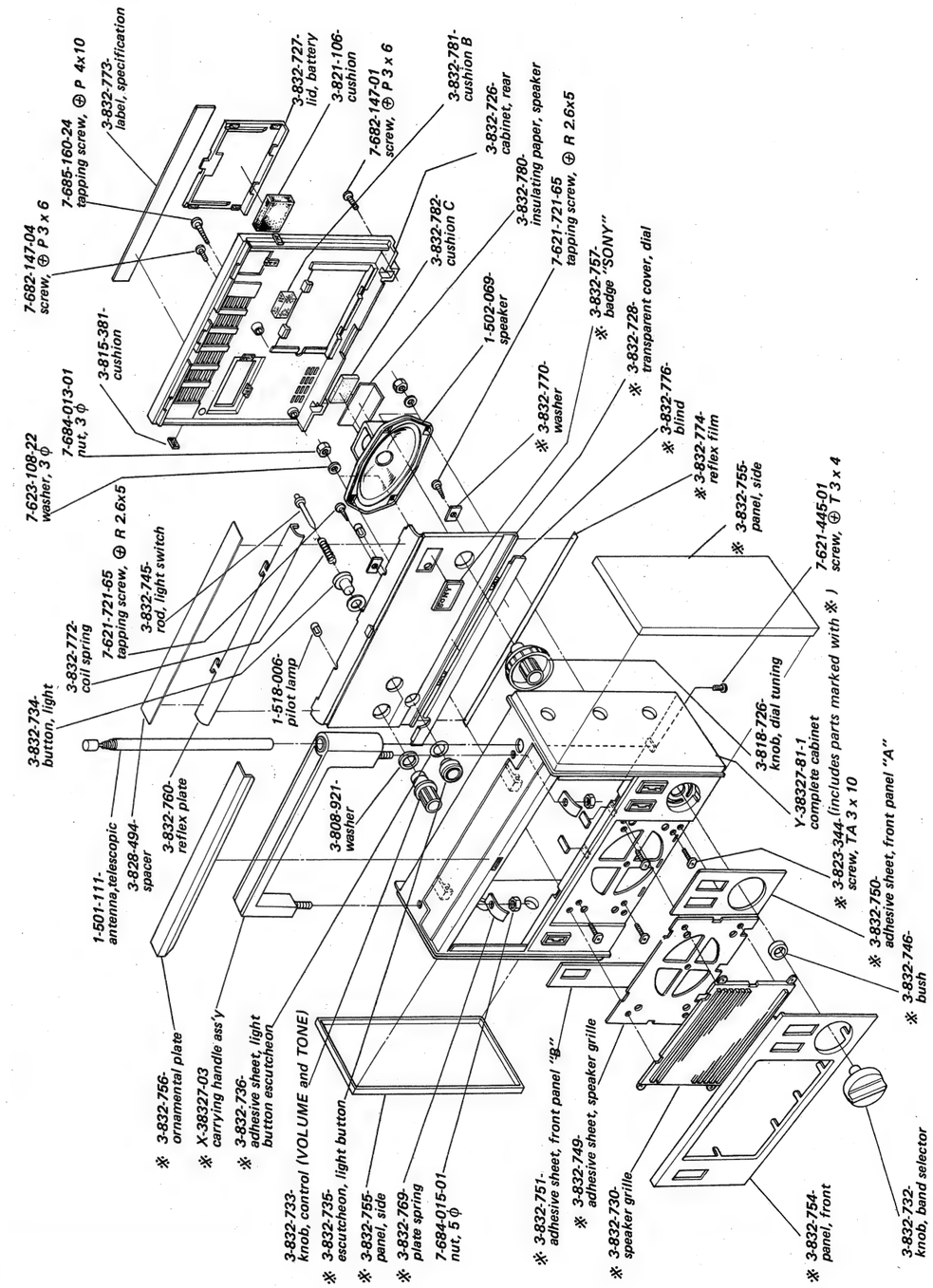


Printed circuit board
Part No. 1-539-192-12

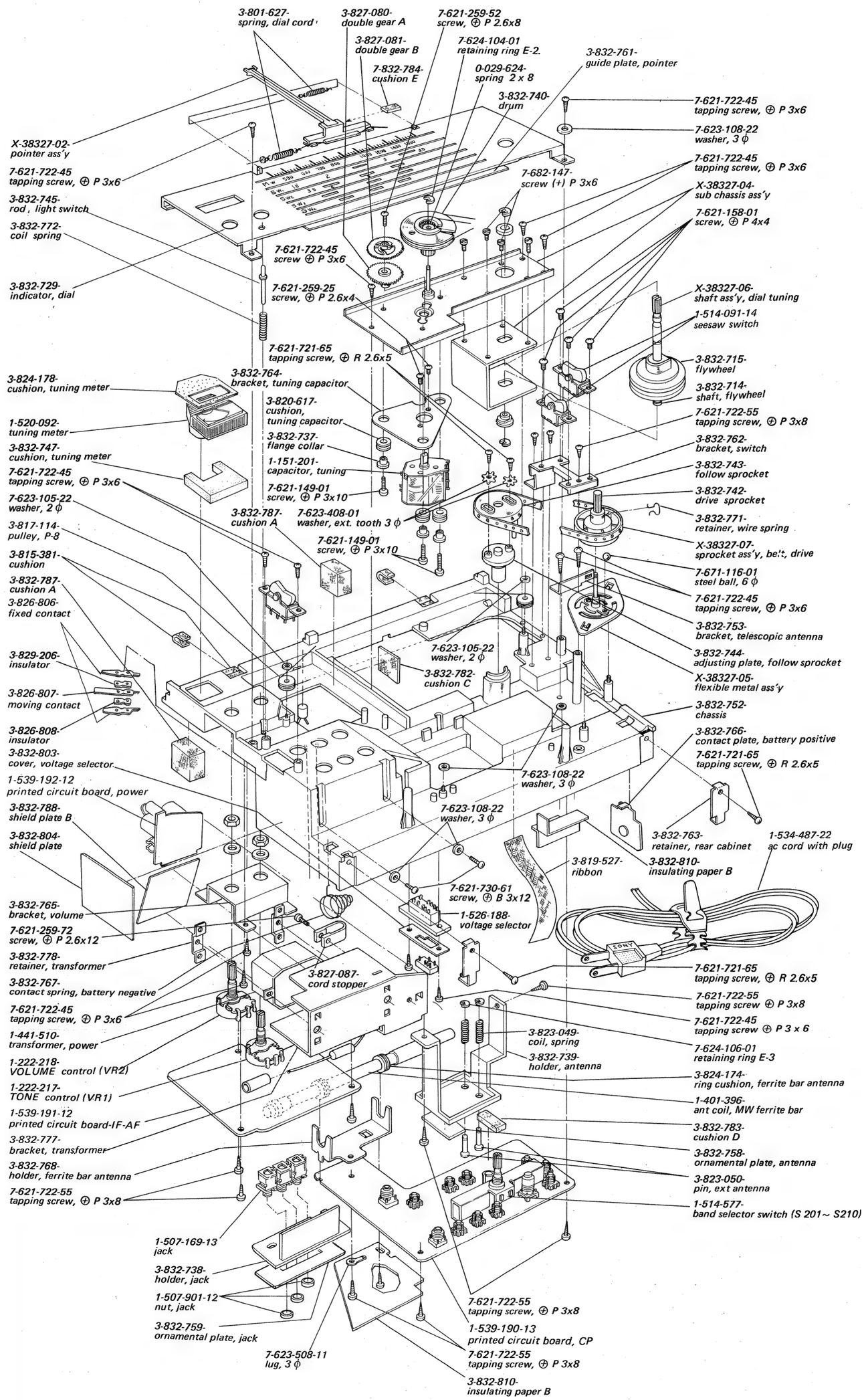


SECTION 5
EXPLODED VIEWS

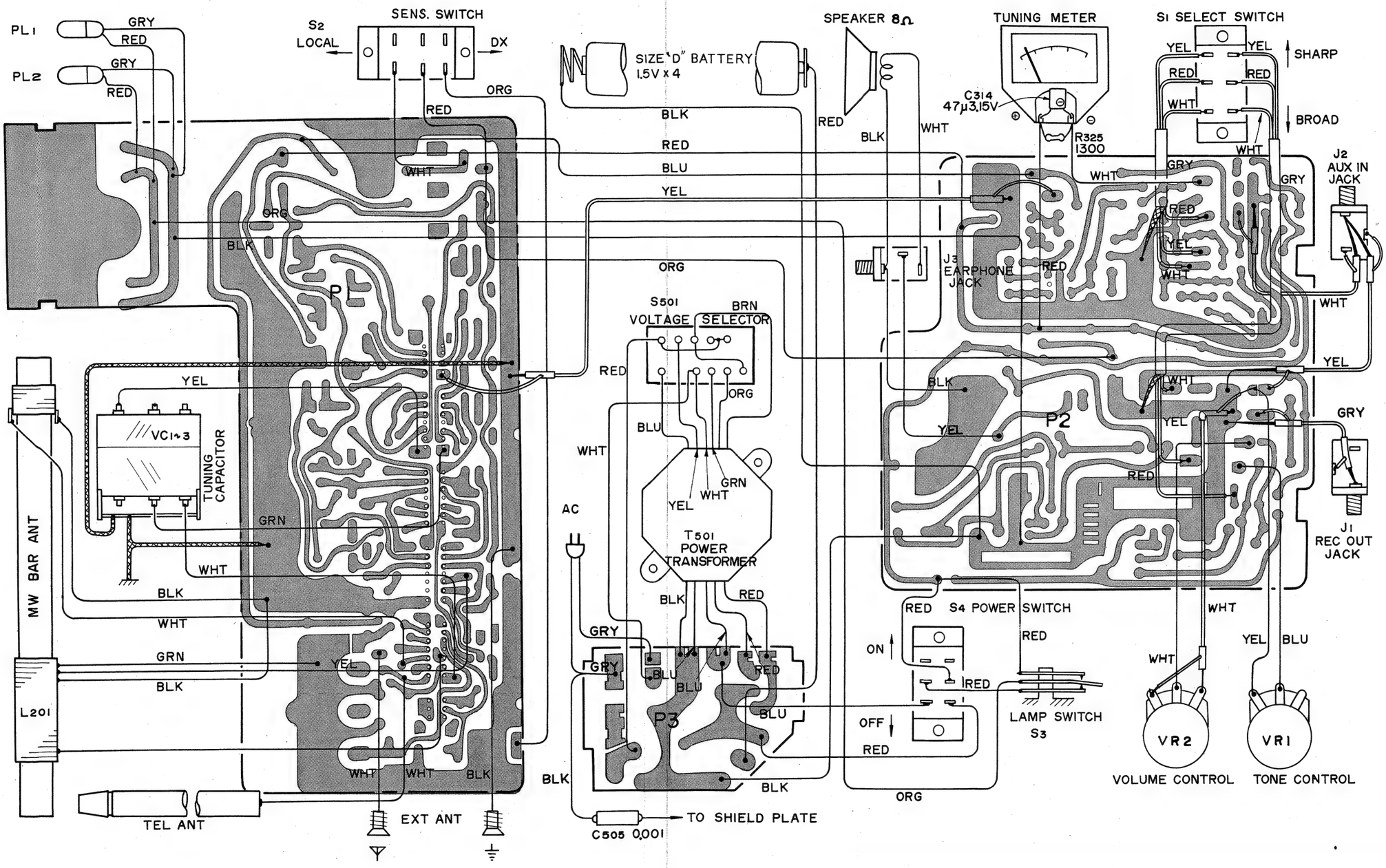
5-1. EXPLODED VIEW (1)



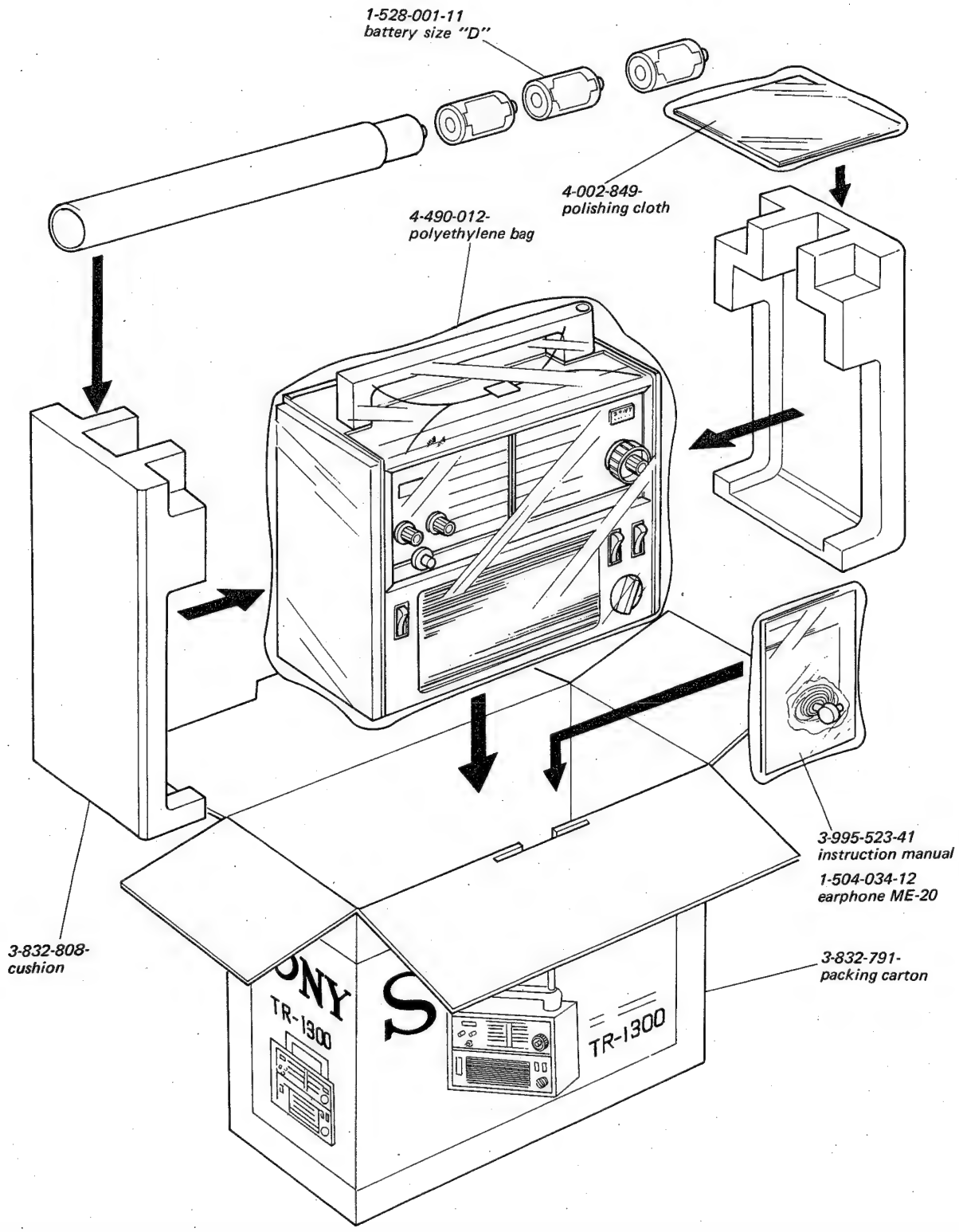
5-2. EXPLODED VIEW (2)



5-3. WIRING DIAGRAM



5-4. PACKING


1-528-001-11
battery size "D"
4-002-849-
polishing cloth
4-490-012-
polyethylene bag
3-995-523-41
instruction manual
1-504-034-12
earphone ME-20
3-832-808-
cushion
3-832-791-
packing carton
TR-1300
TR-1300

SECTION 6

ELECTRICL PARTS LIST FOR TR-1300

Symbol No.	Part No.	Description
	Semiconductors	
Q201		transistor 2SK23
Q202		" 2SC870
Q203		" 2SC710
Q301		" 2SC710
Q302		" 2SC710
Q303		" 2SC710
Q304		" 2SC870
Q305		" 2SC870
Q401		" 2SC633
Q402		" 2SC633
Q403		" 2SB495
Q404		" 2SB495
D301		diode 1T23
D302		" 1T23
D501, 502		" CD2
D503		" 1T495
Th401	8-691-002-11	thermistor CS47
	Coils and Transformers	
L201	1-401-396-	ant. coil, mw ferrite bar
L202	1-401-397-	" sw1
L203	1-401-398-	" sw2
L204	1-401-399-	" sw3
L205	1-401-400-	" sw4
L206	1-425-552-	rf coil, mw
L207	1-425-553-	" sw1
L208	1-425-554-	" sw2
L209	1-425-555-	" sw3
L210	1-425-556-	" sw4
L211	1-405-399-	osc, coil, mw
L212	1-405-400-	" sw1
L213	1-405-401-	" sw2
L214	1-405-402-	" sw3
L215	1-405-403-	" sw4
L216	1-401-201-	trap coil
L301	1-407-175-	micro inductor, 330μH
L401	1-407-206-	" 10mH
L501	1-407-190-	" 10μH
L502	1-407-190-	" 10μH
IFT301	1-403-137-	transformer, i-f
IFT302	1-403-145-	" i-f
CF301	1-403-154-	ceramic filter
CF302	1-403-168-	"
T401	1-423-100-	transformer, driver
T402	1-427-425-	" output
T501	1-441-510-	" power

Symbol No.	Part No.	Description
	Miscellaneous	
TEL. ANT	1-501-111-	antenna, telescopic
SP	1-502-069-	speaker
F501	1-532-128-	fulse
	1-533-037-	holder, fuse
	1-534-487-22	ac cord with plug
J1, 2, 3	1-507-169-13	jack
	1-507-901-12	nut, jack
S1, 2, 4	1-514-091-14	seasaw switch
S201-210	1-514-577-	slide switch, band selector
S501	1-526-188-	voltage selectorr
PL1, 2	1-518-006-01	pilot lamp
TM	1-502-092-	tuning meter
	Resistors	
	Resistors are all carbon, ¼W ±5%, unless otherwise specified.	
VR1	1-222-217-	5kΩ TONE control
VR2	1-222-218-	50kΩ VOLUME control
R201	1-242-666-	510Ω
R202	1-242-737-	470kΩ
R203	1-242-657-	220Ω
R204	1-242-657-	220Ω
R205	1-242-667-	560Ω
R206	1-242-662-	360Ω
R207	1-242-661-	330Ω
R208	1-242-663-	390Ω
R209	1-242-673-	1kΩ
R210	1-242-657-	220Ω
R211	1-242-676-	1300Ω
R212	1-242-686-	3600Ω
R213	1-242-680-	2kΩ
R214	1-242-657-	220Ω
R215		– discarded –
R216	1-242-671-	820Ω
R217	1-242-676-	1300Ω
R218	1-242-667-	560Ω
R219	1-242-657-	220Ω
R220	1-242-658-	240Ω
R221	1-242-661-	330Ω
R222	1-242-667-	560Ω
R223	1-242-667-	560Ω
R224	1-242-649-	100Ω
R225	1-242-634-	24Ω
R226	1-242-689-	4700Ω
R227	1-242-643-	56Ω
R228	1-242-652-	130Ω

Symbol No.	Part No.	Description
R301	1-242-717-	68kΩ
R302	1-242-708-	30kΩ
R303	1-242-673-	1kΩ
R304	1-242-684-	3kΩ
R305	1-242-708-	30kΩ
R306	1-242-712-	43kΩ
R307		– discarded –
R308	1-242-706-	24Ω
R309	1-222-810-	VR 3kΩ
R310	1-242-684-	3kΩ
R311	1-242-665-	470Ω
R312	1-242-704-	20kΩ
R313	1-242-730-	240kΩ
R314		– discarded –
R315	1-242-657-	220Ω
R316	1-242-657-	220Ω
R317	1-242-673-	1kΩ
R318	1-242-686-	3600Ω
R319	1-242-684-	3kΩ
R320	1-242-667-	560Ω
R321	1-242-643-	56Ω
R322	1-242-697-	10kΩ
R323	1-242-699-	12kΩ
R324	1-242-657-	220Ω
R325	1-242-681-	2400Ω
R401	1-242-673-	1kΩ
R402	1-242-721-	100kΩ
R403	1-242-680-	2kΩ
R404	1-242-691-	5600Ω
R405	1-242-694-	7500Ω
R406	1-242-666-	510Ω
R407	1-242-684-	3kΩ
R408	1-242-681-	2200Ω
R409	1-242-673-	1kΩ
R410	1-242-636-	30Ω
R411	1-242-643-	56Ω
R412	1-242-680-	2kΩ
R413	1-244-810-	2.4Ω
R414	1-242-664-	430Ω
R415	1-242-641-	47Ω
R416	1-242-660-	300Ω

Capacitors

CV1-3	1-151-201-	tuning capacitor
CT201, 202	1-141-011-	trimmer capacitor, 2 unit
209, 210		
211, 212		
CT203-205,	1-141-015-	trimmer capacitor, 3 unit
206-208,		
213-215		
C201	1-101-899-	15pF ceramic
C202	1-101-960-	10pF "
C203	1-101-900-	30pF "
C204	1-101-879-	43pF "
C205	1-101-881-	47pF "
C206	1-101-963-	100pF "
C207	1-105-837-12	0.022μF mylar
C208	1-105-837-12	0.022μF "
C209	1-105-837-12	0.022μF "
C210	1-101-960-	10pF ceramic
C211	1-101-879-	43pF "
C212	1-101-883-	51pF "
C213	1-101-887-	62pF "
C214	1-101-895-	91pF "
C215	1-105-837-12	0.022μF mylar
C216	1-105-833-12	0.01μF "
C217	1-105-833-12	0.01μF "
C218	1-105-829-12	0.0047μF "
C219	1-105-833-12	0.01μF "
C220	1-105-833-12	0.01μF "
C221	1-105-833-12	0.01μF "
C222	1-101-898-	20pF ceramic
C223	1-101-879-	43pF "
C224	1-101-887-	62pF "
C225	1-101-887-	62pF "
C226	1-101-963-	100pF "
C227	1-103-616-	430pF "
C228	1-103-628-	1300pF "
C229	1-103-636-	3000pF "
C230	1-105-833-12	0.01μF mylar
C231	1-102-810-	8pF ceramic
C232	1-121-322-	47μF 6.3V electrolytic
C233	1-105-839-12	0.033μF mylar
C234	1-101-960-	10pF ceramic
C235	1-101-899-	15pF "
C301	1-105-833-12	0.01μF mylar
C302	1-105-837-12	0.022μF "
C303	1-121-347-	10μF 16V electrolytic
C304		– discarded –
C305		– discarded –
C306	1-107-138-	150pF mica
C307	1-101-881-	47pF ceramic
C308	1-101-900-	30pF "
C309		– discarded –

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
C310	1-105-837-12	0.022μF mylar	C406	1-121-291-	100μF 6.3V electrolytic
C311	1-121-290-	100μF 3.15V electrolytic	C407	1-121-344-	3.3μF 16V "
C312	1-105-833-12	0.01μF mylar	C408	1-121-295-	220μF 6.3V "
C313	1-105-833-12	0.01μF "	C409	1-121-295-	220μF 6.3V "
C314	1-121-486-	47μF 3.15V electrolytic	C410	1-105-835-12	0.015μF mylar
C315	1-121-359-	470μF 6.3V "	C411	1-105-835-12	0.015μF "
C316	1-105-837-12	0.022μF mylar	C412	1-105-849-12	0.22μF "
C317	1-121-295-	220μF 6.3V electrolytic	C413	1-121-727-	470μF 16V electrolytic
C318	1-101-885-	56pF ceramic	C414	1-105-833-12	0.01μF mylar
C401	1-127-021-	0.3μF 10V aluminum solid	C501	1-121-186-	1000μF 16V electrolytic
C402	1-127-022-	0.5μF 10V "	C502	1-121-186-	1000μF 16V "
C403	1-121-291-	100μF 6.3V electrolitic	C503	1-115-071-	0.0047μF metalized paper
C404	1-127-019-	0.1μF 10V aluminum solid	C504	1-115-071-	0.0047μF "
C405	1-107-138-	200pF mica	C505	1-115-097-	0.001μF "

When ordering replacement parts, you should use PART NUMBER listed on the PARTS LISTS or shown in the EXPLODED VIEW. The symbol number should not be used for ordering purposes.

Hardware Nomenclature

P – Pan Head Screw

K – Flat Countersunk Head Screw

B – Binding Head Screw

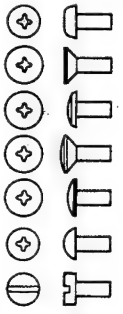
RK – Oval Countersunk Head Screw

T – Truss Head Screw

R – Round Head Screw

F – Flat Fillister Head Screw

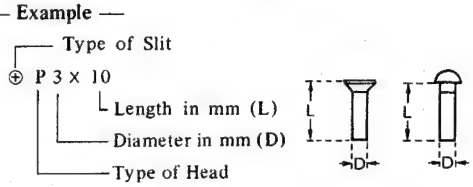
SC – Set Screw



E – Retaining Ring (E Washer)

W – Washer
SW – Spring Washer
LW – Lock Washer
N – Nut

— Example —



SONY CORPORATION

1931 ?

Complete Spare Parts List for TR-1300

August, 1969

Part No.	Description	Unit Price
	A. Cabinet and Appearance Items	
Y-38327-81-1	Complete Cabinet, including	$5.97
X-38327-01-	Cabinet Ass'y, main	0.87
X-38327-03-	Carrying Handle Ass'y	0.37
3-832-726-	Cabinet, rear	0.36
3-832-727-	Lid, battery	0.11
3-832-728-	Transparent Cover, dial	0.43
3-832-729-	Indicator, dial	0.28
3-832-730-	Speaker Grille	0.94
3-832-749-	Adhesive Sheet, speaker grille	0.11
3-832-750-	Adhesive Sheet, front panel "A"	0.04
3-832-751-	Adhesive Sheet, front panel "B"	0.02
3-832-754-	Panel, front	0.59
3-832-755-	Panel, side	0.43
3-832-756-	Ornamental Plate	0.11
3-832-757-	Badge, "SONY"	0.11
3-832-758-	Ornamental Plate, antenna	0.03
3-832-759-	Ornamental Plate, jack	0.06
3-832-773-	Label, specification	0.09
	* * * *	
3-832-732-	Knob, band selector	0.03
3-832-733-	Knob, VOLUME and TONE control	0.10
3-832-734-	Button, pilot lamp	0.02
3-818-726-	Knob, dial tuning	0.14
	B. Mechanical Parts	
X-38327-02-	Pointer Ass'y	0.11
X-38327-04-	Sub Chassis Ass'y	0.17
X-38327-05-	Flexible Metal Ass'y	0.13
X-38327-06-	Shaft Ass'y, dial tuning	0.45

Part No.	Description	Unit Price
X-38327-07-	Sprocket Ass'y, belt drive	$0.05
3-832-735-	Escutcheon, lamp button	0.01
3-832-736-	Adhesive Sheet, escutcheon	0.01
3-832-737-	Flange Collar	0.02
3-832-738-	Holder, jack	0.04
3-832-739-	Holder, antenna	0.05
3-832-740-	Drum	0.04
3-832-742-	Drive Sprocket	0.08
3-832-743-	Follow Sprocket	0.06
3-832-744-	Adjusting Plate, follow sprocket	0.05
3-832-745-	Rod, lamp switch	0.03
3-832-746-	Bush	0.02
3-832-747-	Cushion, tuning meter	0.01
3-832-748-	Spacer, adjusting plate	0.01
3-832-752-	Chassis	0.50
3-832-753-	Bracket, telescopic antenna	0.04
3-832-760-	Reflex Plate	0.15
3-832-761-	Guide Plate, pointer	0.04
3-832-762-	Bracket, switch	0.05
3-832-763-	Bracket, cabinet rear	0.03
3-832-764-	Bracket, tuning capacitor	0.03
3-832-765-	Bracket, volume	0.04
3-832-766-	Contact Plate, battery positive	0.02
3-832-767-	Contact Spring, battery negative	0.03
3-832-768-	Holder, ferrite bar antenna	0.06
3-832-769-	Plate Spring	0.03
3-832-770-	Washer	0.01
3-832-771-	Retainer, wire spring	0.02
3-832-772-	Coil Spring	0.01
3-832-774-	Reflex Film	0.02
3-832-775-	Heat Sink	0.06
3-832-777-	Chassis, transformer	0.12
3-832-778-	Retainer	0.02
0-029-624-	Spring 2 x 8	0.01
3-450-048-	Clamper, transistor	0.03
3-801-627-	Spring, dial cord	0.01
3-806-315-	Felt Ring	0.01
3-808-921-	Washer	0.01
3-817-114-	Pulley	0.01
3-819-527-	Ribbon	0.02
3-820-617-	Cushion, tuning capacitor	0.02
3-821-106-	Cushion, battery lid	0.02

Part No.	Description	Unit Price
3-823-344-	Screw, machine TA 3 x 10	$0.01
3-824-174-	Cushion, ferrite bar antenna	0.02
3-824-178-	Cushion, tuning meter	0.02
3-827-080-	Double Gear "A"	0.03
3-827-081-	Double Gear "B"	0.03
3-827-087-	Cord Stopper	0.02

C. Electrical Parts

1-539-190-11	Printed Circuit Board, CP	0.52
1-539-191-11	Printed Circuit Board, IF-AF	0.22
1-539-192-11	Printed Circuit Board, power	0.06
1-526-188-	Voltage Selector	0.35
1-532-127-	Fuse	0.04
1-533-037-	Holder, fuse	0.01
1-534-487-	AC Cord with Plug	0.27
1-501-111-	Antenna, telescopic	1.13
1-502-069-	Speaker	0.71
1-507-169-13	Jack	0.05
1-507-901-12	Nut, jack	0.01
1-514-091-	Seesaw Switch	0.17
1-518-006-	Pilot Lamp	0.08
1-520-092	Tuning Meter	1.04

Coil and Transformer

1-401-201-	Trap Coil	0.03
1-401-397-	Ant. Coil, SW1	0.11
1-401-398-	Ant. Coil, SW2	0.11
1-401-399-	Ant. Coil, SW3	0.11
1-401-400-	Ant. Coil, SW4	0.05
1-401-396-	Ant. Coil, MW ferrite bar	0.34
1-403-137-	Transformer, AM/IF	0.10
1-403-145-	Transformer, AM/IF	0.11
1-403-154-	Ceramic Filter	0.10
1-403-168-	Ceramic Filter	0.21
1-405-399-	Osc. Coil, MW	0.11
1-405-400-	Osc. Coil, SW1	0.11
1-405-401-	Osc. Coil, SW2	0.11
1-405-402-	Osc. Coil, SW3	0.11

Part No.	Description		Unit Price
1-101-879-	C204,211,223	43pF ±10%	$0.02
1-101-881-	C205	47pF ±10%	0.02
1-101-883-	C212	51pF ±10%	0.02
1-101-885-	C307,318	56pF ±10%	0.02
1-101-887-	C213,224,225	62pF ±10%	0.02
1-101-895-	C214	91pF ±10%	0.02
1-101-963-	C206-2,226-2	100pF ±10%	0.02
1-102-810-	C231	8pF ±1pF	0.02
	Styrol Capacitor		
1-103-616-	C227	430pF ±5%	0.03
1-103-628-	C228	1300pF ±5%	0.04
1-103-636-	C229	3000pF ±5%	0.04
	Mylar Capacitor		
1-105-829-12	C218	0.0047μF ±20%	0.02
1-105-833-12	C215,217,219,221, 230,313,314,312, 301	0.01μF ±20%	0.02
1-105-835-12	C410,411	0.015μF ±20%	0.02
1-105-837-12	C207,208,209,216, 302,310	0.022μF ±20%	0.03
1-105-839-12	C231,220	0.033μF ±20%	0.03
1-105-849-12	C412	0.22μF ±20%	0.09
	Electrolytic Capacitor (Mica)		
1-107-138-	C405,306	200pF ±10%	0.02
	Electrolytic Capacitor		
1-121-344-	C407	3.3μF 25WV +150 -10%	0.04
1-121-347-	C303	10μF 16WV +100 -10%	0.04
1-121-322-	C232	47μF 6.3WV +100 -10%	0.04
1-121-290-	C311,409	100μF 3.15WV +100 -10%	0.05
1-121-291-	C403	100μF 6.3WV +100 -10%	0.05
1-121-295-	C317,408,409	220μF 6.3WV +100 -10%	0.07
1-121-359-	C315	470μF 6.3WV +100 -10%	0.07
1-121-727-	C413	470μF 16WV +100 -10%	0.12
1-121-186-	C503,504	1000μF 16WV +200 -10%	0.12

Part No.	Description		Unit Price
	Electrolytic Capacitor (Paper)		
1-115-071-	C501,502	0.0047μF ±20% ----------	$0.09
	Electrolytic Capacitor (Alox)		
1-127-019-	C404	0.1μF 10WV ±20% ----------	0.05
1-127-021-	C401	0.3μF 10WV ±20% ----------	0.05
1-127-022-	C404	0.5μF 10WV ±20% ----------	0.06
	D. Screw, Nut and Washer		(per 100)
	Screw, machine		
7-621-259-25	(+) P 2.6 x 4	(for Tuning Capacitor) ----------	0.14/100
7-621-259-52	(+) P 2.6 x 8	(for Double Gear) ----------	0.26/100
7-621-259-72	(+) P 2.6 x 12	(for Cord Stopper) ----------	0.34/100
7-621-147-01	(+) P 3 x 6	(for Tuning Shaft, Telescopic Antenna Holding Bracket) -----	0.12/100
7-621-147-04	(+) P 3 x 6	(for Rear Cabinet) ----------	0.50/100
7-621-149-01	(+) P 3 x 10	(for Tuning Capacitor, Transformer Chassis) ---------	0.13/100
7-621-158-01	(+) P 4 x 4	(for Switch) ----------	0.23/100
7-621-445-01	(+) T 3 x 4	(for Telescopic Antenna) ----------	0.14/100
	Screw, self-tapping		
7-621-721-65	(+) R 2.6 x 5	(for Sprocket Adjusting Shaft, Rear Cabinet Holding Bracket) ----------	0.30/100
7-621-722-45	(+) P 3 x 6	(for Volume Holder, Dial Scale, Sub-chassis, Slide Switch, Switch Holding Plate) --------	0.25/100
7-621-722-55	(+) P 3 x 8	(for CP Board, IF Board, Telescopic Antenna Holding Bracket) ----------	0.25/100
7-621-730-61	(+) P 3 x 12	(for Chassis) ----------	0.28/100
7-685-160-24	(+) P 4 x 10	(for Rear Cabinet) ----------	0.27/100

Part No.	Description		Unit Price
	Nut		
7-684-013-01	3ϕ	(for Speaker) ----------	$0.28/100
7-684-015-01	5ϕ	(for Carrying Handle) ----------	0.64/100
	Washer, plain		
7-623-105-22	2ϕ (Large)	(for Pulley) ----------	0.07/100
7-623-108-22	3ϕ (")	(for Speaker, Transformer Chassis) ----------	0.15/100
	Lug		
7-623-508-11	3ϕ	(for Dial Drum) ----------	0.13/100
	Eyelet		
7-623-611-01	1.5 x 3	(for Dial Cord, Pointer Guide) ----	0.05/100
	Retaining Ring		
7-624-104-01	E-2	(for Dial Drum) ----------	0.35/100
7-624-106-01	E-3	(for Ext. Ant. Terminal, Ext. Ground Terminal) ----------	0.38/100
	Steel Ball		
7-671-116-01	6mmϕ	(for Driving Sprocket) ----------	0.57/100
	Dial Cord		
7-633-120-52	0.25ϕ	1400mm ----------	0.02/m